

WARM-UP

1. $3x - 1 = 8$

$$\begin{array}{r|l}
 +1 & +1 \\
 \hline
 3x & 9 \\
 \hline
 3 & 3 \\
 \hline
 x & = 3
 \end{array}$$

3

$$\frac{2}{3}p - 9 = 11$$

2.

$$\frac{1}{3}x - 2 = 9$$

4.

$$15 = \frac{2}{5}f + 5$$

Solving Equations with Variables on both sides of the equal sign!

This is serious ALGEBRA people!

A question . . .

?



$$1. \quad 2x + 6 = 5x$$

$$\begin{array}{r|l} -2x & -2x \\ \hline 6 & 3x \\ \hline 3 & 3 \end{array}$$

$$\begin{array}{r|l} 6 & 3x \\ \hline 3 & 3 \end{array}$$

$$\boxed{x=2}$$

HINT: You want the variables to be on 1 side of the equal sign and the numbers on the other side...To make that happen, what should you do first??

$$2. \quad \boxed{-10} + 8y = 6y$$

$$\begin{array}{r|l} -8y & -8y \\ \hline -10 & -2y \\ \hline -2 & -2 \\ \hline 5 & y \end{array}$$

$$-10 + 2y = 0$$

$$2y = 10$$

Try these on your own!

$$3. \quad 7t = 3t + 12$$

$$\begin{array}{r} -3t \quad | \quad -3t \\ \hline 4t \quad | \quad 12 \\ \hline 4 \quad | \quad 3 \end{array}$$

$$+ = 3$$

Check

$$4. \quad 5r + 35 = -2r$$

$$\begin{array}{r} -5r \quad | \quad -5r \\ \hline 35 \quad | \quad -7r \\ \hline -7 \quad | \quad -7 \\ \hline -5 = -7 \end{array}$$

Check

Homework!!!!

Questions on homework?

Responders

Solving Equations
with
Variables on Both Sides
(3 terms)

Day 2

1 $7m + 15 = 2m$

A $m = -3$

B $m = 3$

C $m = 15/9$ or $1 \frac{2}{3}$

D $m = 9/15$



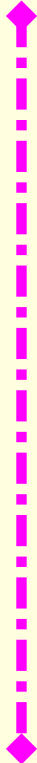
2 $12r - 27 = 3r$

A $r = -9$

B $r = 3$

C $r = -3$

D $r = 9$



3 $8w = 21 + w$

A $w = 21/9$ or $2 \frac{1}{3}$

B $w = 7$

C $w = 3$

D $w = 9/21$



We can do this! It's go time . . .

Homework Time

